

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for arranging error control of packet-switched data, ~~wherein at least a first part and a second part can be separated from the packets,~~ the method comprising:
  - ~~selecting during connection set-up determining~~ conditions that apply for ~~[[the]]~~ processing of ~~[[the]]~~ a first part and ~~[[the]]~~ a second part of a packet in an error situation;
  - detecting errors in received data;
  - checking, in response to an error detected in ~~[[the]]~~ a received first part and/or second part whether said conditions allow the first part and/or second part to be transmitted to upper protocol layers; and
  - transmitting, in response to said conditions allowing it, the first part, ~~and/or the~~ second part, or the first part and the second part to the upper protocol layers.
2. (Original) A method according to claim 1, wherein the first part comprises header fields and the second part payload.
3. (Original) A method according to claim 2, wherein the header fields are 20 used for decompression, even if said conditions prevented their transmission to upper layers.
4. (Currently Amended) A method according to claim 1, wherein ~~[[the]]~~ a first part and the second part are separated from an ~~[[the]]~~ IP data packets to be transmitted; and the first part and the second part are transmitted on separate logical connections.

5. (Original) A method according to claim 1, further comprising:

indicating to the upper layers an error detected in the first part 30 and/or second part of the packets to be transmitted.

6. (Original) A method according to claim 1, wherein the error detection is performed on data units received on a physical layer and comprising the first part and the second part;

an error indication is added to erroneous data units; and

it is checked whether said data units meet said conditions.

7. (Currently Amended) A method according to claim 1, wherein a radio resource control protocol RRC is used for the management of radio resources, wherein

said conditions ~~instructions~~ are determined by means of RRC signaling between [[the]] a packet radio network and [[the]] a mobile station; and

a data link layer entity, ~~such as a PDCP entity or an RLC entity~~, is configured to carry out said check.

8. (Currently Amended) A method according to claim 4, wherein the logical connections are handled by [[the]] RLC ~~entities~~ entity of [[the]] a radio link control layer; and

the RLC entities are provided with a command instructing whether an erroneous data unit is to be transmitted to an upper layer or not.

9. (Currently Amended) A method according to claim 1, wherein [[the]] a PDCP entity of [[the]] a packet data convergence protocol layer is responsible for separating the first part and the second part and for combining them; and

said conditions are checked in the PDCP entity, in response to an indication that the first part and/or the second part in one and the same packet are erroneous.

10. (Currently Amended) A method according to claim 1, wherein different conditions apply for ~~[[the]]~~ a mobile station than for ~~[[the]]~~ a network element providing ~~[[the]]~~ logical connections.

11. (Currently Amended) A packet radio system for transferring packet-switched data ~~in which at least a first part and a second part can be separated from the packets~~, wherein

the packet radio system is configured to select during connection set-up ~~determine~~ conditions for ~~[[the]]~~ handling of errors detected at least in ~~[[the]]~~ first parts and ~~[[the]]~~ second parts of packets;

the packet radio system is configured to detect errors in received packet-switched data,

the packet radio system is configured to check, in response to a detected error in ~~[[the]]~~ a received first part and/or second part whether said conditions allow the first part and/or second part to be transferred to upper layers; and

the packet radio system is configured to transmit, in response to said conditions allowing the transmission, the first part, ~~and/or the second part,~~ or the first part and the second part to upper protocol layers.

12. (Original) A packet radio system according to claim 11, wherein the first part comprises header fields and the second part payload.

13. (Original) A packet radio system according to claim 11, wherein the packet radio system is configured to separate the first part and the second part from the IP packets to be transmitted; and

the packet radio system is configured to transmit the first part and the second part on separate logical connections.

14. (Currently Amended) packet radio system according to claim 11, wherein a radio resources control protocol RRC is used for the management of radio resources,

the packet radio network of the packet radio system is configured to determine said conditions ~~instructions~~ by means of RRC signalling to the mobile station; and

the mobile station and the packet radio network are configured to command the data link layer entity, ~~such as the PDCP entity or the RLC entity~~, to carry out said check.

15. (Currently Amended) A mobile station comprising:

means for transferring packet-switched data ~~in which at least a first part and a second part can be separated from the packets~~;

means for selecting during connection set-up ~~determining~~ conditions that apply for [[the]] processing of [[the]] a first part and [[the]] a second part of a packet in an error situation;

means for detecting errors in received data;

means for checking, in response to an error detected in [[the]] a received first part and/or second part whether said conditions allow the first part and/or second part to be transmitted to upper protocol layers; and

means for transmitting, in response to said conditions allowing it, the first part, ~~and/or the second part~~, or the first part and the second part to the upper protocol layers.

16. (Currently Amended) A network element comprising:

means for transferring packet-switched data ~~in which at least a first part and a second part can be separated from the packets;~~

means for selecting during connection set-up ~~determining~~ conditions that apply for ~~[[the]]~~ processing of ~~[[the]]~~ a first part and ~~[[the]]~~ a second part of a packet in an error situation;

means for detecting errors in received data;

means for checking, in response to an error detected in ~~[[the]]~~ a received first part and/or second part whether said conditions allow the first part and/or second part to be transmitted to upper protocol layers; and

means for transmitting, in response to said conditions allowing it, the first part, ~~and/or the second part, or the first part and the second part~~ to the upper protocol layers.

17. (New) An apparatus configured to receive packet-switched data, wherein

the apparatus is configured to select during connection set-up conditions that apply for processing of a first part and a second part of a packet in an error situation;

the apparatus is configured to detect errors in received data;

the apparatus is configured to check, in response to an error detected in a received first part and/or second part whether said conditions allow the first part and/or second part to be transmitted to upper protocol layers; and

the apparatus is configured to transmit, in response to said conditions allowing it, the first part, the second part, or the first part and the second part to the upper protocol layers.

18. (New) An apparatus according to claim 17, wherein the first part comprises header fields and the second part payload.

19. (New) An apparatus according to claim 18, wherein the apparatus is configured to use header fields for decompression, even if said conditions prevented their transmission to upper layers.

20. (New) An apparatus according to claim 17, wherein the apparatus is configured to separate a first part and the second part from an IP data packet to be transmitted; and

the apparatus is configured to transmit the first part and the second part on separate logical connections.

21. (New) An apparatus according to claim 17, wherein the apparatus is configured to indicate to the upper layers an error detected in the first part and/or second part of the packets.

22. (New) An apparatus according to claim 17, wherein the error detection is performed on data units received on a physical layer and comprising the first part and the second part;

an error indication is added to erroneous data units; and

it is checked whether said data units meet said conditions.

23. (New) An apparatus according to claim 17, wherein the apparatus is configured to use a radio resource control protocol RRC for the management of radio resources, wherein

the apparatus is configured to determine said conditions by means of RRC signalling between a packet radio network and the apparatus; and

the apparatus is configured to provide a data link layer entity configured to carry out said check.

24. (New) An apparatus according to claim 20, wherein the apparatus is configured to handle the logical connections by an RLC entity of the radio link control layer; and

the apparatus is configured to provide the RLC entity with a command instructing whether an erroneous data unit is to be transmitted to an upper layer or not.

25. (New) An apparatus according to claim 17, wherein the apparatus is configured to provide a PDCP entity of a packet data convergence protocol layer responsible for separating the first part and the second part and for combining them; and

the PDCP entity is configured to check said conditions in response to an indication that the first part and/or the second part in one and the same packet are erroneous.

26. (New) An apparatus according to claim 17, wherein different conditions apply for a mobile station than for a network element providing logical connections.